

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 0013611

OFFICE Design Policy & Support

Webster County
GDOT District 3 - Thomaston
SR 27 @ Kinchafoonee Creek &
Overflow 1.5 MI W of Preston – Bridge
Replacement

DATE 10/19/2017

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3
Albert Shelby, Director of Program Delivery
Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator
Kim Nesbitt, Program Delivery Administrator
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Monica Flournoy, State Materials and Testing Administrator
Patrick Allen, State Utilities Engineer
Benny Walden, Statewide Location Bureau Chief
Michael Presley, District Engineer
Adam Smith, District Preconstruction Engineer
Scott Parker, District Utilities Engineer
Bryan Williams, Project Manager
BOARD MEMBER - 2nd Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
LIMITED SCOPE PROJECT CONCEPT REPORT**

Project Type: <u>Bridge Replacement</u>	P.I. Number: <u>0013611</u>	
GDOT District: <u>3</u>	County: <u>Webster</u>	
Federal Route Number: <u>280</u>	State Route Number: <u>27</u>	
Project Number: <u>N/A</u>		

Bridge replacements (2 locations) on US 280 / SR 27 over Kinchafoonnee Creek & Overflows, 1.5 miles west of Preston

Report updated 10/2/2017

Submitted for approval:

Maurice J. Sheehan
Moreland Altobelli Associates, Inc.

8-3-17
Date

N/A
Local Government Sponsor

Date

Albert Shelby
State Program Delivery Administrator

8-3-17
Date

Bill Will SHP
GDOT Project Manager

8-3-17
Date

Recommendation for approval:

* Eric Duff/AT
State Environmental Administrator

8/8/2017
Date

* Christina D. Barry/AT
for State Traffic Engineer

8/18/2017
Date

* Bill DuVall/AT
State Bridge Engineer

8/22/2017
Date

- ☐ MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).
- ☒ Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

* Cynthia L. VanDyke/AT
State Transportation Planning Administrator

8/10/2017
Date

Approval:

Concur: Phil Pirelli
GDOT Director of Engineering

10-16-2017
Date

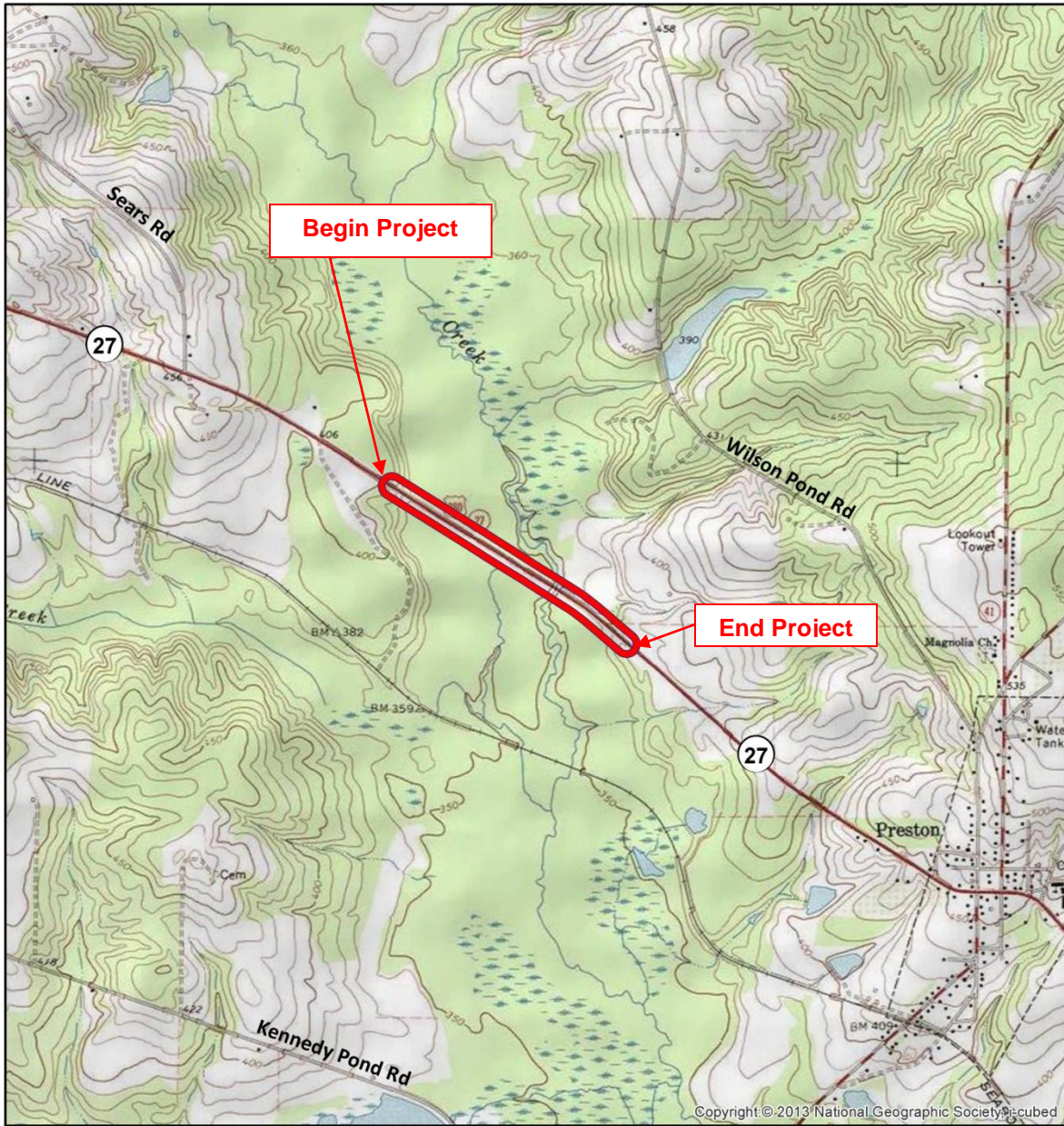
Approve: Margaret B. Pirelli
GDOT Chief Engineer

10.16.17
Date

* Recommendations on File

Webster County:

PROJECT LOCATION MAP



Project Location Map

 Project Area

0 2,000 4,000 Feet

SR 27 @ Kinchafoonee
Creek & Overflow
Webster County, GA



PLANNING & BACKGROUND DATA

Project Justification Statement: The project consists of two bridges on US 280 in Webster County. Both structures were designed using an H-15 vehicle, which is below the current design standards. The bridge on US 280 over Kinchafoonee Creek (Structure ID 307-0003-0) was built in 1953 and widened in 1990. The original bridge consists of twelve concrete flat slab spans on concrete caps with steel piles. The widened section consists of prestressed box beams on concrete caps with steel piles. The overall condition of this bridge would be classified as fair. The deck/superstructure is in fair condition with concrete spalls and minor concrete cracking with efflorescence. The concrete panels have spalls with exposed rebar in the bottom of the panels, the most severe being in spans 8 and 11. The substructure is in fair condition with moderate concrete deterioration and section loss in the steel piles up to 3/16" in some areas. This bridge is classified as having an unknown foundation and therefore could be at risk for scour.

The bridge on US 280 over Kinchafoonee Creek overflow (Structure ID 307-0004-0) was built in 1953 and widened in 1990. The original bridge consists of eight concrete flat slab spans on concrete caps with steel piles. The widened section consists of prestressed box beams on concrete caps with steel piles. This bridge is classified as structurally deficient and the overall condition of this bridge would be classified as poor. The deck/superstructure is in fair condition with moderate concrete cracking and spalls with exposed rebar. The substructure is in poor condition with moderate concrete deterioration consisting of cracking and spalling of the concrete caps. The encasement of the steel piles has been undermined with a large amount of exposed pile that has heavy corrosion and section loss up to 1/4" in some areas. This bridge is classified as having an unknown foundation.

Due to the structural integrity of the bridges pertaining to the design vehicle, Structure ID 307-0004-0 being classified as Structurally Deficient, section loss in the steel piles of both bridges, and both bridges having unknown foundations, replacement of both bridges is recommended.

Existing conditions: 2-lane rural roadway

Other projects in the area: None

MPO: N/A

TIP #: N/A

Congressional District(s): 2

Federal Oversight: ☐PoDI ☒Exempt ☐State Funded ☐Other

Projected Traffic: AADT 24 HR T: 31.5%
Current Year (2017): 2050 Open Year (2021): 2100 Design Year (2041): 2300
Traffic Projections Performed by: MAAI
Date approved by the GDOT Office of Planning: 3/24/2017

Functional Classification (Mainline): Rural Principal Arterial

Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants:

Warrants met: ☐None ☐Bicycle ☐Pedestrian ☐Transit

Pavement Evaluation and Recommendations

Initial Pavement Evaluation Summary Report Required? ☒No ☐Yes
Initial Pavement Type Selection Report Required? ☒No ☐Yes
Feasible Pavement Alternatives: ☒HMA ☐PCC ☐HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project: Replace two existing bridges West of Preston on SR 27.

Major Structures:

Structure ID	Existing	Proposed
307-0003-0	The bridge deck is 45'-1" wide and 180' in length. The sufficiency rating is 73.1.	The bridge deck would be 43'-3" wide and 180' in length consisting of two 12-foot lanes with 8' outside shoulders, and 1'-7.5" side barrier on each side.
307-0004-0	The bridge deck is 44'-7" wide and 120' in length. The sufficiency rating is 55.0.	The bridge deck would be 43'-3" wide and 120' in length consisting of two 12-foot lanes with 8' outside shoulders, and 1'-7.5" side barrier on each side.

Two (2) bridge culverts (quad 10' x 6' and quad 10'x8') carry the flow of the Kinchafoonee Creek and will be examined as part of the hydraulic study. The down stream RR crossing will also be hydraulically examined.

Mainline Design Features: SR 27 / US 280

Feature	Existing	Policy	Proposed
Typical Section			
- Number of Lanes	2		2
- Lane Width(s)	12'	11' to 12'	12'
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder Width	10' total 6.5' paved 3.5' grassed	10' total 6.5' paved 3.5' grassed	10' total 6.5' paved 3.5' grassed
- Outside Shoulder Slope	6%	6%	6%
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	N/A		N/A
- Bike Accommodations	N/A	4 ft.	Bikeable Shoulder
Posted Speed	55 MPH		55 MPH
Design Speed	55 MPH	55 MPH	55 MPH
Minimum Horizontal Curve Radius	Tangent	Tangent	Tangent
Maximum Superelevation Rate	N/A	6% or 8%	N/A
Maximum Grade	3%	8%	3%
Access Control	Permit	Permit	Permit
Design Vehicle	WB-50		WB-62
Pavement Type	HMA		HMA

*According to current GDOT design policy if applicable

Major Interchanges/Intersections:

Lighting required: ☒ No ☐ Yes

Off-site Detours Anticipated: ☐ No ☐ Undetermined ☒ Yes

Transportation Management Plan [TMP] Required: ☐ No ☒ Yes

If Yes: Project classified as: ☒ Non-Significant

TMP Components Anticipated: ☒ TTC

Is the project located on a NHS roadway? ☐ No ☒ Yes

Design Exceptions/Design Variances to GDOT and/or FHWA Controlling Criteria anticipated: None

Design Variances to GDOT Standard Criteria anticipated: None

UTILITY AND PROPERTY

Railroad Involvement: None

Utility Involvements: GA Power, Sumter EMC, AT&T, Windstream

SUE Required: ☒ No ☐ Yes

Public Interest Determination Policy and Procedure recommended? ☒ No ☐ Yes

Right-of-Way: Existing width: 100ft. Proposed width: 100ft.
Required Right-of-Way anticipated: ☒ None ☐ Yes ☐ Undetermined
Easements anticipated: ☒ None ☐ Temporary ☐ Permanent ☐ Utility ☐ Other

Anticipated total number of impacted parcels:	<u>0</u>
Displacements anticipated:	Businesses: <u>0</u>
	Residences: <u>0</u>
	Other: <u>0</u>
Total Displacements:	<u>0</u>

Impacts to USACE property anticipated? ☒ No ☐ Yes ☐ Undetermined

Is Federal Aviation Administration (FAA) coordination anticipated? ☒ No ☐ Yes

ROUNDABOUTS

Roundabout Lighting Commitment Letter received: ☒ No ☐ Yes

Roundabout Planning Level Assessment:

Roundabout Feasibility Study:

Roundabout Peer Review Required: ☒ No ☐ Yes ☐ Completed – Date:

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern: None

Context Sensitive Solutions Proposed: None

County: Webster

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document:

NEPA: ☐ PCE ☒ CE ☐ EA-FONSI
 GEPA*: ☐ Type A ☐ Type B ☐ None

Level of Environmental Analysis: (check one)

- ☒ The environmental considerations noted below are based on preliminary desktop or screening level environmental analysis and are subject to revision after the completion of resource identification, delineation, and agency concurrence.
- ☐ The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.

Water Quality Requirements:

MS4 Compliance – Is the project located in an MS4 area? ☒ No ☐ Yes

- MS4 Concept Report Checklist
- MS4 BMP Calculation Spreadsheet
- MS4 Drainage Area Map

Is Protected Species water quality mitigation anticipated? ☒ No ☐ Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated: A 404 Permit and buffer variance may be needed.

Air Quality:

Is the project located in an Ozone Non-attainment area? ☒ No ☐ Yes
 Carbon Monoxide hotspot analysis Required? ☒ No ☐ Yes

NEPA/GEPA Comments & Information: Field surveys will be conducted. Additional public involvement may be required prior to implementation of the detour of SR 27 due to the bridge closures and construction of the new bridges.

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Project Meetings: Concept Team Meeting - July 17, 2017

Project Activity	Party Responsible for Performing Task(s)
Concept Development	MAAI
Design	MAAI
Right-of-Way Acquisition	N/A
Utility Coordination (Preconstruction)	GDOT
Utility Relocation (Construction)	Utility Companies
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	MAAI
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Other coordination to date: None

County: Webster

Project Cost Estimate and Funding Responsibilities:

	PE Activities		ROW	Reimbursable Utilities	CST*	Total Cost
	PE Funding	Section 404 Mitigation				
Funded By	GDOT	GDOT	GDOT	GDOT	GDOT	
\$ Amount	\$800,000	To Be Determined	\$0	\$1,350,000	\$2,766,882	\$4,916,882
Date of Estimate	6/23/17		6/23/17	7/14/17	7/27/17	

*CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

Preferred Alternative: The preferred alternative would replace the existing SR 27 two-lane bridge over Kinchafoonee Creek and the overflow with new bridges and culverts at the same locations. SR 27 would be closed to traffic during construction and an off-site detour would be implemented for the duration of construction.			
Estimated Property Impacts:	0	Estimated Total Cost:	\$4,916,882
Estimated ROW Cost:	\$0	Estimated CST Time:	12 months
Rationale: This alternative has the least cost and r/w, utility, environmental impacts. Easiest to construct.			
No-Build Alternative: The no-build alternative would be to take no action to improve or replace the existing bridges and culverts on SR 27.			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0
Estimated ROW Cost:	\$0	Estimated CST Time:	0
Rationale: The bridges and culverts would continue to fall into disrepair.			
Alternative 1: Proposes to reconstruct the bridge on a new alignment south of the existing bridge to avoid streams on North. This alternative was proposed if a detour of SR 27 was not possible.			
Estimated Property Impacts:	3	Estimated Total Cost:	\$6,796,094
Estimated ROW Cost:	\$92,000	Estimated CST Time:	16 months
Rationale: This alternative was eliminated from consideration due to the fact that it is possible to detour SR 27 while the bridge is being reconstructed in its existing location. Additionally, the cost of Alternative 1 is more expensive to construct than the Preferred Alternative as it would require the reconstruction of two culverts and double the length of the alignment.			
Alternative 2: This alternative proposes to construct a temporary bridge south of the existing bridge while maintaining traffic on the existing bridge. Traffic would be shifted to the temporary bridge while the new bridge is being constructed. When the new bridge is completed, traffic would be shifted back to the existing alignment and the temporary bridge would be removed.			
Estimated Property Impacts:	3	Estimated Total Cost:	\$7,181,093
Estimated ROW Cost:	\$92,000	Estimated CST Time:	24 months
Rationale: This alternative was eliminated from consideration due to construction time would be extended to two years. Also, Alternative 2 would be more expensive due to construction and removal of two additional bridges on SR 27 and would require the reconstruction of two culverts.			

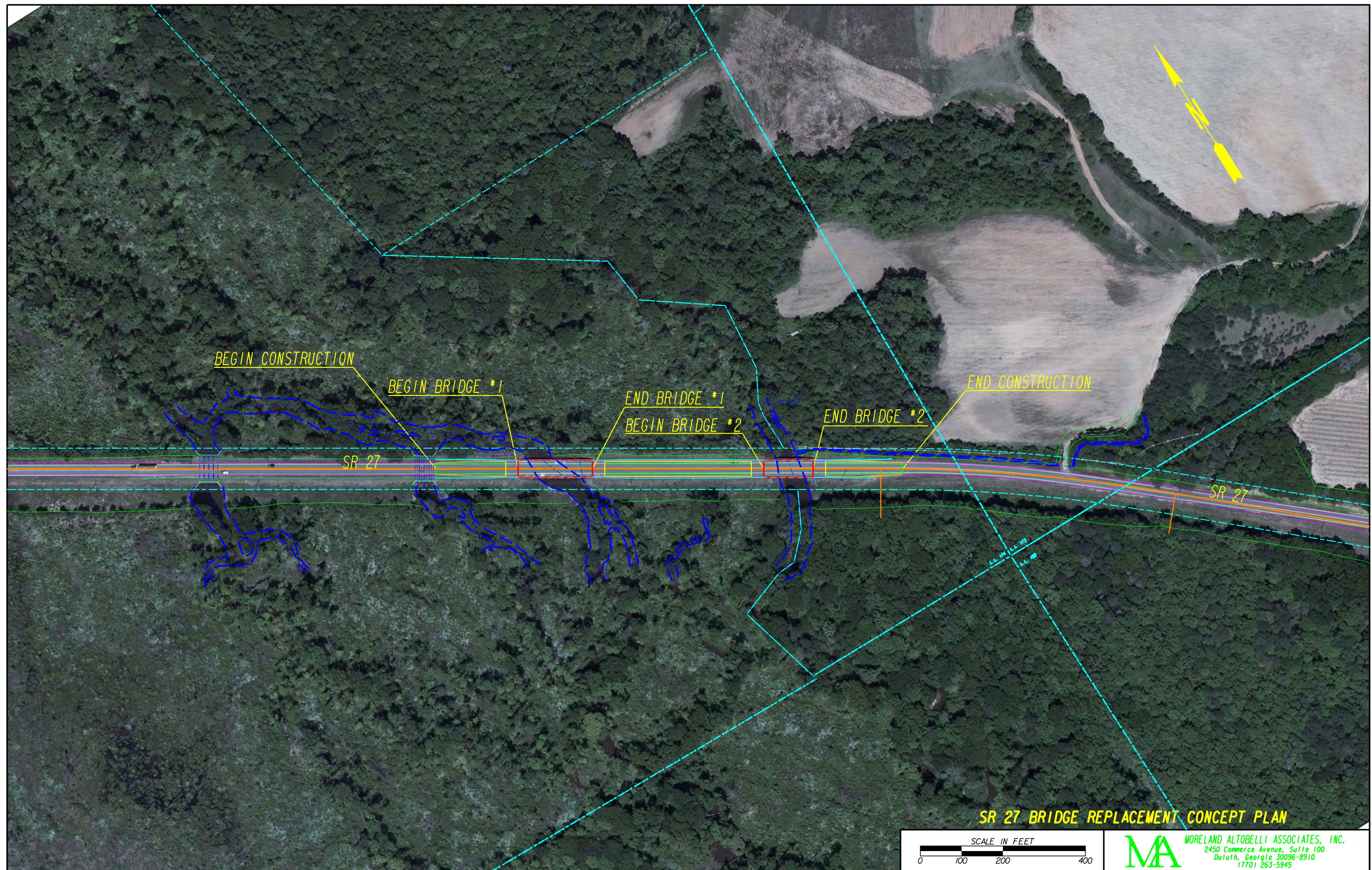
Additional Comments/ Information: None

LIST OF ATTACHMENTS/SUPPORTING DATA

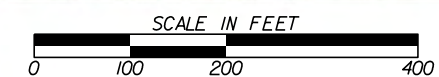
1. Concept Layout
2. Typical sections
3. Cost Estimates
4. Bridge Inventory
5. Traffic Projections
6. Meeting Minutes
7. Detour Map
8. Alternative 1 – Concept Layout & CES & R/W Cost

Attachment 1

Concept Layout



SR 27 BRIDGE REPLACEMENT CONCEPT PLAN

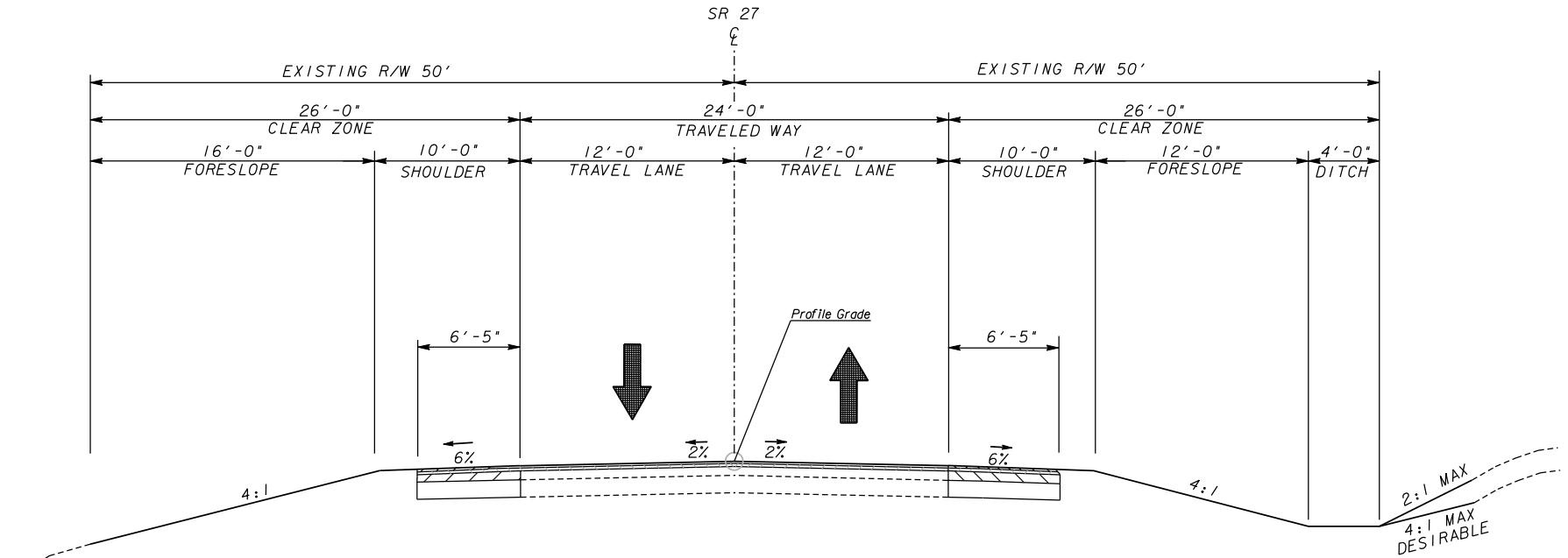


MA

WORELAND ALTOBELLI ASSOCIATES, INC.
2450 Commerce Avenue, Suite 100
Duluth, Georgia 30096-8910
(770) 263-5945

Attachment 2

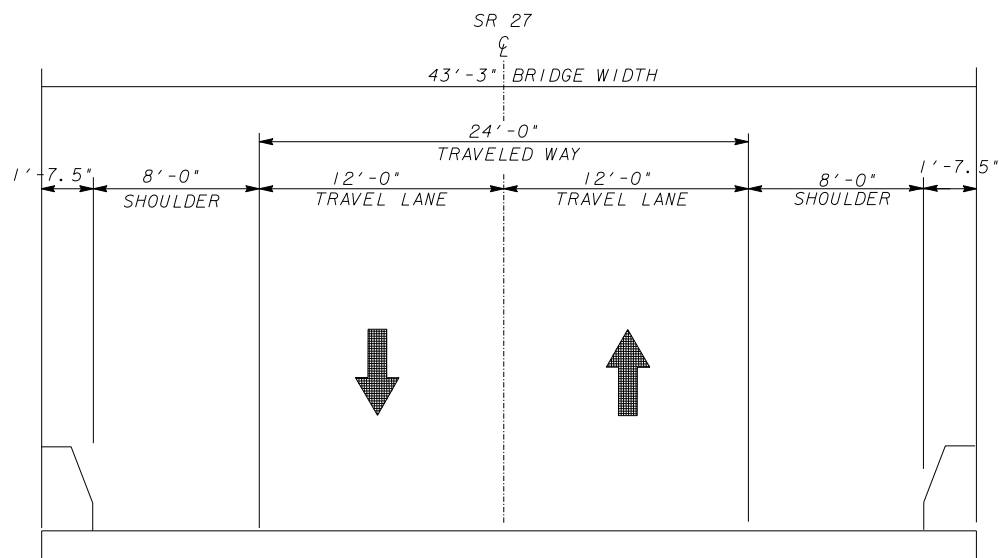
Typical Sections



TYPICAL SECTION
SR 27 IN WEBSTER COUNTY
NORMAL CROWN SECTION
N. T. S.

				REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
						OFFICE:	
						TYPICAL SECTIONS	
						SR 27/US 280	
						DRAWING No.	
						5-001	

DATE### #USER#	TIME### ##PRF# ##PENTABLE##	#DGN#	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



TYPICAL SECTION
SR 27 BRIDGES
NORMAL CROWN SECTION
N. T. S.

REVISION DATES			STATE OF GEORGIA	
			DEPARTMENT OF TRANSPORTATION	
			OFFICE:	
			TYPICAL SECTIONS	
			SR 27/US 280	
			DRAWING NO.	
			5-002	

Attachment 3

Cost Estimates

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. **0013611** **OFFICE** Program Delivery

PROJECT DESCRIPTION
SR 27 @ KINCHAFOONEE CREEK & OVERFLOW 1.5 MI W OF PRESTON

DATE July 27, 2017

From: Albert V. Shelby, III, State Program Delivery Administrator

To: Lisa L. Myers, State Project Review Engineer
via Email Mailbox: CostEstimatesandUpdates@dot.ga.gov

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Bryan Williams

MGMT LET DATE 3/15/2020

MGMT ROW DATE 11/15/2018

PROGRAMMED COSTS (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$ 4,000,000.00

DATE

RIGHT OF WAY \$ 250,000.00

DATE

UTILITIES \$ 1,350,000.00

DATE

REVISED COST ESTIMATES

CONSTRUCTION* \$ 2,766,881.59

RIGHT OF WAY \$ 0.00

UTILITIES \$ 1,350,000.00

*Cost Contains **15** % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

The revised cost are based on the Concept Report. The project contingency is based on this being a bridge project with low risks.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$ 2,286,909.80	Base Estimate From CES	
B. ENGINEERING AND INSPECTION (E & I):	\$ 114,345.49	Base Estimate (A) x	5 %
C. CONTINGENCY:	\$ 360,188.29	Base Estimate (A) + E & I (B) x	15 %
		See % Table in "Risk Based Cost Estimation" Memo	
D. TOTAL LIQUID AC ADJUSTMENT:	\$ 5,438.01	Total From Liquid AC Spreadsheet	
E. CONSTRUCTION TOTAL:	\$ 2,766,881.59	(A + B + C + D = E)	

REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
Ga Power Co. Transmission	\$1,250,000.00
Sumter EMC	\$100,000.00
Bellsouth/AT&T	\$0.00
Windstream	\$0.00
TOTAL	\$ 1,350,000.00

ATTACHMENTS: (File Copy in the Project Cost Estimate Folder)

Construction Cost Estimate
Utility Cost Estimate
Preconstruction Status Report

PROJ. NO. 0013611
P.I. NO. 0013611
DATE 7/18/2017

CALL NO. 0/00/2016

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Jul-17	\$ 2.063
DIESEL		\$ 2.350
LIQUID AC		\$ 371.00

Link to AC Index:
<http://www.dot.ga.gov/PS/Materials/AsphaltFuelIndex>

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)					5342.4	\$	5,342.40
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	593.60			
Monthly Asphalt Cement Price month project let (APL)			\$	371.00			
Total Monthly Tonnage of asphalt cement (TMT)				24			

ASPHALT	Tons	%AC	AC ton
Leveling	40	5.0%	2
12.5 OGFC	0	5.0%	0
12.5 mm	0	5.0%	0
9.5 mm SP	200	5.0%	10
25 mm SP	140	5.0%	7
19 mm SP	100	5.0%	5
	480		24

BITUMINOUS TACK COAT

Price Adjustment (PA)					\$ 95.61	\$	95.61
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	593.60			
Monthly Asphalt Cement Price month project let (APL)			\$	371.00			
Total Monthly Tonnage of asphalt cement (TMT)				0.429510092			

Bitum Tack

Gals	gals/ton	tons
100	232.8234	0.42951009

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)					0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	593.60			
Monthly Asphalt Cement Price month project let (APL)			\$	371.00			
Total Monthly Tonnage of asphalt cement (TMT)				0			

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf.Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0

TOTAL LIQUID AC ADJUSTMENT \$ **5,438.01**

STATE HIGHWAY AGENCY

DATE : 07/25/2017

PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0013611CNCPT SPEC YEAR: 13
 DESCRIPTION: SR 27 BRIDGE REPLACEMENT

ITEMS FOR JOB 0013611CNCPT

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0020	150-1000		LS	TRAFFIC CONTROL - 0013611	1.000	222991.80	222991.80
0025	163-0232		AC	TEMPORARY GRASSING	2.000	667.45	1334.91
0030	163-0240		TN	MULCH	16.000	360.07	5761.14
0035	163-0300		EA	CONSTRUCTION EXIT	4.000	1827.12	7308.50
0040	163-0520		LF	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	120.000	19.03	2283.83
0045	163-0527		EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	20.000	359.95	7199.09
0050	165-0030		LF	MAINT OF TEMP SILT FENCE, TP C	2175.000	0.81	1764.73
0055	165-0041		LF	MAINT OF CHECK DAMS - ALL TYPES	200.000	3.99	798.66
0060	165-0101		EA	MAINT OF CONST EXIT	4.000	718.59	2874.37
0065	167-1000		EA	WATER QUALITY MONITORING AND SAMPLING	4.000	323.41	1293.64
0070	167-1500		MO	WATER QUALITY INSPECTIONS	12.000	739.36	8872.40
0075	171-0030		LF	TEMPORARY SILT FENCE, TYPE C	4350.000	4.00	17443.20
0080	210-0100		LS	GRADING COMPLETE - 0013611	1.000	70000.00	70000.00
0085	310-1101		TN	GR AGGR BASE CRS, INCL MATL	770.000	34.64	26676.17
0090	402-1812		TN	RECYL AC LEVELING,INC BM&HL	40.000	125.32	5013.16
0095	402-3103		TN	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	200.000	98.82	19765.11
0100	402-3121		TN	RECYL AC 25MM SP,GP1/2,BM&HL	140.000	96.36	13491.04
0105	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	100.000	101.68	10168.92
0110	413-0750		GL	TACK COAT	100.000	2.56	256.00
0115	432-5010		SY	MILL ASPH CONC PVMT,VARB DEPTH	510.000	9.45	4819.62
0120	433-1000		SY	REINF CONC APPROACH SLAB	535.000	177.80	95125.12
0125	441-0050		SY	CONC SLOPE DRAIN	20.000	100.22	2004.54
0130	441-0303		EA	CONC SPILLWAY, TP 3	4.000	1913.55	7654.24
0135	446-1100		LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	200.000	11.06	2213.41
0140	540-1102		LS	REM OF EX BR, BR NO - EX BRIDGE 2	1.000	154000.00	154000.00
0145	540-1102		LS	REM OF EX BR, BR NO - EX BRIDGE 1	1.000	231000.00	231000.00
0150	543-1100		LS	CONSTR BR-COMP-BOTTOM OF CAP BRIDGE 2	1.000	519000.00	519000.00
0155	543-1100		LS	CONSTR BR-COMP-BOTTOM OF CAP BRIDGE 1	1.000	778500.00	778500.00
0160	603-2180		SY	STN DUMPED RIP RAP, TP 3, 12	40.000	70.34	2813.64
0165	603-7000		SY	PLASTIC FILTER FABRIC	40.000	4.90	196.04
0170	636-1036		SF	HWY SGN,TP1MAT,REFL SH TP 11	20.000	21.38	427.60
0175	636-2070		LF	GALV STEEL POSTS, TP 7	55.000	9.08	499.53
0180	636-2080		LF	GALV STEEL POSTS, TP 8	30.000	10.75	322.79
0185	641-1100		LF	GUARDRAIL, TP T	168.000	67.42	11326.67

STATE HIGHWAY AGENCY

DATE : 07/25/2017

PAGE : 2

ITEMS FOR JOB 0013611CNCPT

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0190	641-1200		LF	GUARDRAIL, TP W	1365.000	19.03	25987.81
0195	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	1.000	970.15	970.15
0200	641-9912		EA	TEMP GDRAIL ANCH, TP 12 A	1.000	2613.57	2613.57
0205	653-1501		LF	THERMO SOLID TRAF ST 5 IN, WHI	1535.000	0.75	1158.34
0210	653-1502		LF	THERMO SOLID TRAF ST, 5 IN YEL	1535.000	0.65	1002.68
0215	654-1001		EA	RAISED PVMT MARKERS TP 1	55.000	5.37	295.60
0220	657-1085		LF	PRF PL SD PVT MKG,8,B/W,TP PB	630.000	7.27	4582.43
0225	657-6085		LF	PRF PL SD PVMT MKG,8,B/Y,TPPB	630.000	6.91	4354.69
0230	700-6910		AC	PERMANENT GRASSING	2.000	1426.54	2853.09
0235	700-7000		TN	AGRICULTURAL LIME	10.000	39.66	396.66
0240	700-8000		TN	FERTILIZER MIXED GRADE	2.000	717.69	1435.39
0245	700-8100		LB	FERTILIZER NITROGEN CONTENT	200.000	3.50	700.89
0250	716-2000		SY	EROSION CONTROL MATS, SLOPES	3000.000	1.78	5358.63
ITEM TOTAL							2286909.78
INFLATED ITEM TOTAL							2286909.78
TOTALS FOR JOB 0013611CNCPT							
ESTIMATED COST:							2286909.80
CONTINGENCY PERCENT (0.0):							0.00
ESTIMATED TOTAL:							2286909.80

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **P.I. # 0013611, Webster County**

OFFICE Thomaston

Bridges - SR 27 @ Kinchafoonee Creek & O'flow

DATE July 14, 2017

FROM Scott Parker, District Utilities Manager

TO Bryan Williams, Project Manager

SUBJECT **PRELIMINARY PRE-CONCEPT UTILITY COST (ESTIMATE)**

As requested by your office, we are furnishing you with a Preliminary Utility Cost estimate for each utility with facilities potentially located within the project limits.

FACILITY OWNER	NON-REIMBURSABLE	REIMBURSABLE
GA Power Co. Transmission	\$0	\$1,250,000
Sumter EMC	\$0	\$100,000
Bellsouth/AT&T	\$60,000	\$0
Windstream	\$20,000	\$0
TOTALS	\$80,000	\$1,350,000

Total Preliminary Utility Cost Estimate **\$1,430,000**

If you have any questions, please contact Bobby Watson at 706-646-7661.

SP/BW

cc: Patrick Allen, State Utilities Administrator (*via: e-mail*)

Attachment 4

Bridge Inventory

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:6/20/2017

Parameters: Bridge Serial Number

Bridge Serial Number: 307-0003-0

County: Webster

SUFF. RATING: 73.1

Location & Geography

Structure ID: 307-0003-0

200 Bridge Information: 06

*6 Feature Intersected: KINCHAFOONEE CREEK

*7A Route Number Carried: SR00027

*7B Facility Carried: US 280

9 Location: 1.5 MI W OF PRESTON

2 GDOT District: 4841300000 - D3 District Three Thomaston

*91 Inspection Frequency: 24 Date: 05/02/2017

92A Fracture Critical Insp. Freq: 0 Date: 02/01/1901

92B Underwater Insp Freq: 60 Date: 02/20/2017

92C Other Spc. Insp Freq: 0 Date: 02/01/1901

* 4 Place Code: 00000

*5A Inventory Route(O/U): 1

5B Route Type: 2 - U.S. Numbered

5C Service Designation: 1- Mainline

5D Route Number: 00280

5E Directional Suffix: 0, Not applicable

*16 Latitude: 32 - 4.7466

*17 Longitude: 84 - 33.5766

98A Border Bridge: 0 98B: GA% 00

99 ID Number: 000000000000000

*100 STRAHNET: 0- The Feature is not a STRAHNET route.

12 Base Highway Network: Yes

13A LRS Inventory Route: 3071002700

13B Sub Inventory Route: 0

101 Parallel Structure: N, No parallel structure exists

*102 Direction of Traffic: 2- Two Way

*264 Road Inventory Mile Post: 5.43

*208 Inspection Area: Area 08

*104 Highway System: 1-Inventory Route is on the NHS

*26 Functional Classification: 2- Rural - Principal Arterial - Other

*204A Federal Route Type: S - Secondary.

*204B Federal Route Number: 00301

105 Federal Lands Highway: 0, Not applicable

*110 Truck Route: 0- The Feature is not part of the National Network for Trucks

217 Benchmark Elevation: 0000.00

* Location ID No: 307-00027D-005.43E

218 Datum: 0- Not Applicable

*19 Bypass Length: 27

*20 Toll: 3- On a Free Road or Non-Highway

*21 Maintenance Responsibility: 01-State Highway Agency.

*22 Owner: 01-State Highway Agency.

*31 Design Load: 2- H 16

37 Historical Significance: 5- Not eligible for the National Register of Historic Places

205 Congressional District: 002

27 Year Constructed: 1953

106 Year Reconstructed: 1990

33 Bridge Median: 0-None

34 Skew: 0

35 Structure Flared: No

38 Navigation Control: 0- Navigation is not controlled by an Agency

213 Special Steel Design: 0- Not applicable or other

267A Type Paint Super Structure: 3- Epoxy Mastic, Year : 0000

267B Type Paint Sub Structure: 3- Epoxy Mastic Year : 1990

*42A Type of Service On: 1-Highway

*42B Type of Service Under: 5-Waterway

214A Movable Bridge: 0

214B Operator on Duty: 0

203 Type Bridge: E - Steel pile, N, Steel-Concrete A, No Beams O, Concrete

259 Pile Encasement: 1

*43A Structure Type Main material: 1-Concrete

*43B Structure Type Main Type: 1-Slab

45 Number of Main Spans: 12

44 Structure Type Approach: A:0- Other B: 0- Other

46 Number of Approach Spans: 0

226 Bridge Curve: A: Vertical: NoB: Horizontal: No

111 Pier Protection: N - Navigation Control item coded 0, or Feature not a waterway

107 Deck Structure Type: 2 - Precast Concrete Plank

108A Wearing Surface Type: 6, Bituminous

108B Membrane Type: 0, None

108C Deck Protection: 8, Unknown

265 Underwater Inspection Area: 2

Signs & Attachments

225 Expansion Joint Type: 02- Open or sealed concrete joint (silicone sealant).

242 Deck Drains: 1- Open Scuppers.

243A Parapet Location: 0- None present.

243B Parapet Height: 0.00

243C Parapet Width: 0.00

238A Curb Height: 0.0

238B Curb Material: 0- None.

239A Handrail Left: 9- Concrete New Jersey Type Barrier.

239B Handrail Right: 9- Concrete New Jersey Type Barrier.

*240 Median Barrier Rail: 0- None.

241A Bridge Median Height: 0

241B Bridge Median Width: 0

*230A Guardrail Location Direction Rear: 6- Both sides, approach and continuous.

*230B Guardrail Location Direction Fwd: 6- Both sides, approach and continuous.

*230C Guardrail Location Opposing Rear: 0- None.

*230D Guardrail Location Opposing Fwd: 0- None.

244 Approach Slab: 3- Forward and Rear.

224 Retaining Wall: 0- None.

233 Posted Speed Limit: 55

236 Warning Sign: No

234 Delineator: Yes

235 Hazard Boards: No

237A Gas: 00- Not Applicable

237B Water: 00- Not Applicable

237C Electric: 00- Not Applicable

237D Telephone: 00- Not Applicable

237E Sewer: 00- Not Applicable

247A Lighting: Street: No

247B Navigation: No

247C Aerial: No

*248 County Continuity No.: 00

36A Bridge Railings: 1- Meets current standards

36B Transition: 1- Meets current standards

36C Approach Guardrail: 1- Meets current standards

36D Approach Guardrail Ends: 1- Meets current standards

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:6/20/2017

Bridge Serial Number: 307-0003-0

County: Webster

SUFF. RATING: 73.1

Programming Data

201 Project Number: SF-605(1)/BHF-30-1(5)CT.1
 202 Plans Available: 2- Plans at District Office.
 249 Proposed Project Number: 000000000000000000000000
 250A Reconstruction Approval Status: No
 250B Route Approval Status: No
 250C Approval Status Definition: 0
 250D Approval Status Federal: 0
 251 Project Identification Number: 0013611
 252 Contract Date: 02/01/1901
 260 Seismic Number: 00000
 75A Type Work Proposed: 0- Not Applicable
 75B Work Done by: 0- Initial Inventory
 94 Bridge Improvement Cost:(X\$1,000) \$703
 95 Roadway Improvement Cost: (X\$1,000) \$70
 96 Total Improvement Cost: (X\$1,000) \$1065
 76 Improvement Length: 0.0'
 97 Year Improvement Cost Based On: 2013
 114 Future AADT: 2625
 115 Future AADT Year: 2032

Measurements:

*29 AADT: 1750
 *30 AADT Year: 2012
 109 % Truck Traffic: 1
 * 28A Lanes On: 2
 *28B Lanes Under: 0
 210A Tracks On: 00
 210B Tracks Under: 0
 * 48 Maximum Span Length: 15
 * 49 Structure Length: 180
 51 Bridge Roadway Width: 40.300000000000004'
 52 Deck Width: 45.1'
 * 47 Total Horizontal Clearance: 40.300000000000004'
 50A Curb / Sidewalk Width Left: 0.0
 50B Curb / Sidewalk Width Right: 0.0
 32 Approach Rdwy. Width: 28.0'
***229 Approach Roadway**
 Rear Shoulder Left Width: 2 Right Width:2.0 Type: 2 - Asphalt.
 Fwd Shoulder Left Width: 2 Right Width:2.0 Type: 2 - Asphalt.
 Rear Pavement Width: 24.0 Type:2- Asphalt.
 Forward Pavement Width: 24.0 Type:2- Asphalt.
 Intersection Rear: 0 Forward:0

Ratings and Posting

65 Inventory Rating Method: 1-Load Factor (LF)
 63 Operating Rating Method: 1-Load Factor (LF)
 66A Inventory Type: 2 - HS loading.
 66B Inventory Rating: 25
 64A Operating Type: 2 - HS loading.
 64B Operating Rating: 42
231 Calculated Loads
 231A H-Modified: 21 No
 231B Type3/Tandem: 20 No
 231C Timber: 26 No
 231D HS-Modified: 29 No
 231E Type 3S2: 33 No
 231F Piggyback: 38 No
 281 H Inventory Rating: 15
 262 H Operating Rating: 25
 67 Structural Evaluation: 5
 58 Deck Condition: 5 - Fair Condition
 59 Superstructure Condition: 5 - Fair Condition
 * 227 Collision Damage:
 60A Substructure Condition: 5 - Fair Condition
 60B Scour Condition: 5 - Fair Condition
 60C Underwater Condition: 5 - Fair Condition
 71 Waterway Adequacy: 6-Equal to present minimum criteria.
 61 Channel Protection Cond.: 6-Equal to present minimum criteria.
 68 Deck Geometry: 7
 69 UnderClr. Horz/Vert: N
 72 Approach Alignment: 8-No reduction of vehicle operating speed required.
 62 Culvert: N - Not Applicable
 70 Bridge Posting Required: 5. Equal to or above legal loads
 41 Struct Open, Posted, CL: A. Open, no restriction
 * 103 Temporary Structure: No
232 Posted Loads
 232A H-Modified: 00
 232B Type3/Tandem: 00
 232C Timber: 00
 232D HS-Modified: 00
 232E Type 3s2: 00
 232F Piggyback: 00
 253 Notification Date: 02/01/1901
 258 Federal Notify Date: 02/01/1901

Posting Required

Hydraulic Data

113 Scour Critical: U, No Load Rating; no scour critical data entered.
 216A Water Depth: 5.2
 216B Bridge Height: 10.9
 222 Slope Protection: 6
 221A Spur Dike Rear:
 221B Spur Dike Fwd:
 219 Fender System: 0- None.
 220 Dolphin:
 223A Culvert Cover: 000
 223B Culvert Type: 0- Not Applicable
 223C Number of Barrels: 0
 223D Barrel Width: 0.0
 223E Barrel Height: 0.0
 223F Culvert Length: 0.0
 223G Culvert Apron: 0
 39 Navigation Vertical Clearance: 0'
 40 Navigation Horizontal Clearance: 0
 116 Navigation Vertical Clear Closed: 0

53 Minimum Vertical Clearance Over Rd: 99' 99"
 54A Under Reference Feature: N- Feature not a highway or railroad.
 54B Minimum Clearance Under: 0' 0"
***228 Minimum Vertical Clearance**
 228A Actual Odometer Direction: 99'99"
 228B Actual Opposing Direction: 99'99"
 228C Posted Odometer Direction: 00'00"
 228D Posted Opposing Direction: 00'00"
 55A Lateral Underclearance Reference: N- Feature not a highway or railroad.
 55B Lateral Underclearance on Right: 0.0
 56 Lateral Underclearance on Left: 0.0
 10A Direction of Travel for Max Min: 0
 10B Max Min Vertical Clearance: 99'99"
 245A Deck Thickness Main: 12.5
 245B Deck Thickness Approach: 0.0
 246 Overlay Thickness: 2

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:6/20/2017

Parameters: Bridge Serial Number

Bridge Serial Number: 307-0004-0

County: Webster

SUFF. RATING: 55.0

Location & Geography

Structure ID: 307-0004-0

200 Bridge Information: 06

*6 Feature Intersected: KINCHAFOONEE CREEK O/F

*7A Route Number Carried: SR00027

*7B Facility Carried: US 280

9 Location: 1.4 MI W OF PRESTON

2 GDOT District: 4841300000 - D3 District Three Thomaston

*91 Inspection Frequency: 24 Date: 05/02/2017

92A Fracture Critical Insp. Freq: 0 Date: 02/01/1901

92B Underwater Insp Freq: 24 Date: 02/20/2017

92C Other Sp. Insp Freq: 0 Date: 02/01/1901

*4 Place Code: 00000

*5A Inventory Route(O/U): 1

5B Route Type: 2 - U.S. Numbered

5C Service Designation: 1- Mainline

5D Route Number: 00280

5E Directional Suffix: 0, Not applicable

*16 Latitude: 32 - 4.6962

*17 Longitude: 84 - 33.4830

98A Border Bridge: 0 98B: GA% 00

99 ID Number: 00000000000000

*100 STRAHNET: 0- The Feature is not a STRAHNET route.

12 Base Highway Network: Yes

13A LRS Inventory Route: 3071002700

13B Sub Inventory Route: 0

101 Parallel Structure: N, No parallel structure exists

*102 Direction of Traffic: 2- Two Way

*264 Road Inventory Mile Post: 5.54

*208 Inspection Area: Area 08

*104 Highway System: 1-Inventory Route is on the NHS

*26 Functional Classification: 2- Rural - Principal Arterial - Other

*204A Federal Route Type: S - Secondary.

*204B Federal Route Number: 00301

105 Federal Lands Highway: 0, Not applicable

*110 Truck Route: 0- The Feature is not part of the National Network for Trucks

217 Benchmark Elevation: 0000.00

* Location ID No: 307-00027D-005,54E

218 Datum:

*19 Bypass Length: 27

*20 Toll: 3- On a Free Road or Non-Highway

*21 Maintenance Responsibility: 01-State Highway Agency.

*22 Owner: 01-State Highway Agency.

*31 Design Load: 2- H 15

37 Historical Significance: 5- Not eligible for the National Register of Historic Places

205 Congressional District: 002

27 Year Constructed: 1953

106 Year Reconstructed: 1990

33 Bridge Median: 0-None

34 Skew: 0

35 Structure Flared: No

36 Navigation Control: 0- Navigation is not controlled by an Agency

213 Special Steel Design: 0- Not applicable or other

267A Type Paint Super Structure: 3- Epoxy Mastic. Year : 0000

267B Type Paint Sub Structure: 3- Epoxy Mastic Year : 1990

*42A Type of Service On: 1-Highway

*42B Type of Service Under: 9-Relief

214A Movable Bridge: 0

214B Operator on Duty: 0

203 Type Bridge: E - Steel pile, N. Steel-Concrete A. No Beams O. Concrete

259 Pile Encasement: 1

*43A Structure Type Main material: 1-Concrete

*43B Structure Type Main Type: 1-Slab

45 Number of Main Spans: 8

44 Structure Type Approach: A:0- Other B: 0- Other

46 Number of Approach Spans: 0

226 Bridge Curve: A: Vertical: NoB: Horizontal: No

111 Pier Protection: N - Navigation Control item coded 0, or Feature not a waterway

107 Deck Structure Type: 2 - Precast Concrete Plank

108A Wearing Surface Type: 6. Bituminous

108B Membrane Type: 0. None

108C Deck Protection: 8. Unknown

265 Underwater Inspection Area: 2

0- Not Applicable

Signs & Attachments

225 Expansion Joint Type: 02- Open or sealed concrete joint (silicone sealant).

242 Deck Drains: 1- Open Scuppers.

243A Parapet Location: 0- None present.

243B Parapet Height: 0.00

243C Parapet Width: 0.00

238A Curb Height: 0.0

238B Curb Material: 0- None.

239A Handrail Left: 9- Concrete New Jersey Type Barrier.

239B Handrail Right: 9- Concrete New Jersey Type Barrier.

*240 Median Barrier Rail: 0- None.

241A Bridge Median Height: 0

241B Bridge Median Width: 0

*230A Guardrail Location Direction Rear: 6- Both sides, approach and continuous.

*230B Guardrail Location Direction Fwd: 6- Both sides, approach and continuous.

*230C Guardrail Location Opposing Rear: 0- None.

*230D Guardrail Location Opposing Fwd: 0- None.

244 Approach Slab: 3- Forward and Rear.

224 Retaining Wall: 0- None.

233 Posted Speed Limit: 55

236 Warning Sign: No

234 Delineator: Yes

235 Hazard Boards: No

237A Gas: 00- Not Applicable

237B Water: 00- Not Applicable

237C Electric: 00- Not Applicable

237D Telephone: 00- Not Applicable

237E Sewer: 00- Not Applicable

247A Lighting: Street: No

247B Navigation: No

247C Aerial: No

*248 County Continuity No.: 00

36A Bridge Railings: 1- Meets current standards

36B Transition: 1- Meets current standards

36C Approach Guardrail: 1- Meets current standards

36D Approach Guardrail Ends: 1- Meets current standards

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:6/20/2017

Bridge Serial Number: 307-0004-0

County: Webster

SUFF. RATING: 55.0

Programming Data

201 Project Number: SF-605(1)/BHF-30-1(5)CT.1
 202 Plans Available: 2- Plans at District Office.
 249 Proposed Project Number: 000000000000000000000000
 250A Reconstruction Approval Status: No
 250B Route Approval Status: No
 250C Approval Status Definition: 0
 250D Approval Status Federal: 0
 251 Project Identification Number: 0013611
 252 Contract Date: 02/01/1901
 260 Selsmic Number: 00000
 75A Type Work Proposed: 0- Not Applicable
 75B Work Done by: 0- Initial Inventory
 94 Bridge Improvement Cost:(X\$1,000) \$469
 95 Roadway Improvement Cost: (X\$1,000) \$47
 96 Total Improvement Cost: (X\$1,000) \$703
 76 Improvement Length: 0.0'
 97 Year Improvement Cost Based On: 2013
 114 Future AADT: 2625
 115 Future AADT Year: 2032

Measurements:

*29 AADT: 1750
 *30 AADT Year: 2012
 109 % Truck Traffic: 1
 *28A Lanes On: 2
 *28B Lanes Under: 0
 210A Tracks On: 00
 210B Tracks Under: 0
 *49 Maximum Span Length: 15
 *49 Structure Length: 120
 51 Bridge Roadway Width: 39.5'
 52 Deck Width: 44.7'
 *47 Total Horizontal Clearance: 39.5'
 50A Curb / Sidewalk Width Left: 0.0
 50B Curb / Sidewalk Width Right: 0.0
 32 Approach Rdwy. Width: 28.0'
***229 Approach Roadway**
Rear Shoulder Left Width: 2 *Right Width:*2.0 *Type:* 2 - Asphalt
Rwd Shoulder Left Width: 2 *Right Width:*2.0 *Type:* 2 - Asphalt
Rear Pavement Width: 24.0 *Type:*2- Asphalt
Forward Pavement Width: 24.0 *Type:*2- Asphalt
Intersection Rear: 0 *Forward:*0

Ratings and Posting

65 Inventory Rating Method: 1-Load Factor (LF)
 63 Operating Rating Method: 1-Load Factor (LF)
 66A Inventory Type: 2 - HS loading,
 66B Inventory Rating: 24
 64A Operating Type: 2 - HS loading,
 64B Operating Rating: 41
231 Calculated Loads **Posting Required**
 231A H-Modified: 21 No
 231B Type3/Tandem: 33 No
 231C Timber: 37 No
 231D HS-Modified: 30 No
 231E Type 3S2: 40 No
 231F Piggyback: 40 No
 261 H Inventory Rating: 14
 262 H Operating Rating: 25
 67 Structural Evaluation: 4
 58 Deck Condition: 6 - Satisfactory Condition
 59 Superstructure Condition: 5 - Fair Condition
 * 227 Collision Damage:
 60A Substructure Condition: 4 - Poor Condition
 60B Scour Condition: 5 - Fair Condition
 60C Underwater Condition: 4 - Poor Condition
 71 Waterway Adequacy: 6-Equal to present minimum criteria.
 61 Channel Protection Cond.: 7-Better than present minimum criteria.
 68 Deck Geometry: 6
 69 UnderClr. Horz/Vert: N
 72 Approach Alignment: 8-No reduction of vehicle operating speed required,
 62 Culvert: N- Not Applicable
 70 Bridge Posting Required: 5. Equal to or above legal loads
 41 Struct Open, Posted, CL: A. Open, no restriction
 * 103 Temporary Structure: No
232 Posted Loads
 232A H-Modified: 00
 232B Type3/Tandem: 00
 232C Timber: 00
 232D HS-Modified: 00
 232E Type 3s2: 00
 232F Piggyback: 00
 253 Notification Date: 02/01/1901
 258 Federal Notify Date: 02/01/1901

Hydraulic Data

113 Scour Critical: U, No Load Rating; no scour critical data entered.
 216A Water Depth: 7.8
 216B Bridge Height: 11.8
 222 Slope Protection: 6
 221A Spur Dike Rear:
 221B Spur Dike Fwd:
 219 Fender System: 0- None.
 220 Dolphin:
 223A Culvert Cover: 000
 223B Culvert Type: 0- Not Applicable
 223C Number of Barrels: 0
 223D Barrel Width: 0.0
 223E Barrel Height: 0.0
 223F Culvert Length: 0.0
 223G Culvert Apron: 0
 39 Navigation Vertical Clearance: 0'
 40 Navigation Horizontal Clearance: 0
 116 Navigation Vertical Clear Closed: 0

53 Minimum Vertical Clearance Over Rd: 99' 99"
 54A Under Reference Feature: N- Feature not a highway or railroad.
 54B Minimum Clearance Under: 0' 0"
***228 Minimum Vertical Clearance**
 228A Actual Odometer Direction: 99'99"
 228B Actual Opposing Direction: 99'99"
 228C Posted Odometer Direction: 00'00"
 228D Posted Opposing Direction: 00'00"
 55A Lateral Underclearance Reference: N- Feature not a highway or railroad.
 55B Lateral Underclearance on Right: 0.0
 56 Lateral Underclearance on Left: 0.0
 10A Direction of Travel for Max Min: 0
 10B Max Min Vertical Clearance: 99'99"
 245A Deck Thickness Main: 12.5
 245B Deck Thickness Approach: 0.0
 246 Overlay Thickness: 2

Attachment 5

Traffic Projections

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Webster County
P.I. # 0013611

OFFICE Planning

DATE March 24, 2017

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Albert Shelby, State Program Delivery Engineer
Attention: Bryan Williams

SUBJECT **Reviewed** Traffic Forecasting Methodology Document, and Traffic Assignment Document for SR 27 @ KINCHAFOONEE CREEK & OVERFLOW 1.5 MI W OF PRESTON

Per request, we have reviewed the Traffic Forecasting Methodology Document and Traffic Assignment Document for the above project. Based on the information furnished, we find the Traffic Forecasting Methodology Document and Traffic Assignment Document to be satisfactory, and approve the Traffic Forecasting Methodology Document and Traffic Assignment Document.

If you have any questions concerning this information please contact Andre Washington at (404) 631-1925.

CLV/AMW

Moreland Altobelli Associates, Inc.
2450 Commerce Avenue
Duluth, GA 30096

MEMORANDUM TO: Andre Washington
Georgia Department of Transportation, Office of Planning

FROM: Karla M. Poshedly
Moreland Altobelli Associates, Inc.

DATE: March 24, 2017

SUBJECT: Traffic Assignments for PI#0013611, Webster County, SR 27
Bridge at Kinchafoonee Creek & Overflow

Moreland Altobelli Associates, Inc. is furnishing Traffic Assignments for the above project as follows:

BRIDGE- ID 307-0003-0 & 307-0004-0

	2017 (Existing Year)	2020 (Base Year)	2022 (Base Year +2)	2040 (Design Year)	2042 (Design Year + 2)
AADT	2050	2100	2100	2300	2300
DHV (AM/PM)	115/150	120/150	120/150	130/170	130/170
K% (AM/PM)	5.5% / 7.4%	Same as Existing Year			
D% (AM/PM)	78% / 54%				
24 HR. T% - S.U.	17.0%				
24 HR. T% - COMB.	14.5%				
24 HR. T% - TOTAL	31.5%				
T% - S.U. (AM/PM)	19% / 13.5%				
T% - COMB. (AM/PM)	16.0% / 8.5%				
T% - TOTAL (AM/PM)	35% / 22%				

If you have any questions concerning this information, please contact Karla Poshedly at Office: 770-362-5945 or Direct: 678-728-9025 and Cell phone: 770-363-3572.

Attachment 6

Meeting Minutes



Thomas D. Moreland, PE
Chairman/CEO

Buddy Gratton, PE
President

Vickie E. Moreland
Executive Vice President/CFO

George M. Byrd, PE
Senior Vice President

J. Holly Moreland
Vice President

Richard C. Boullain, PE
Vice President

Barry L. Brown, PE
Vice President

Henry E. Collins, Jr.
Vice President

Bradley M. Hale, PE
Vice President

Albert J. Joyner, Jr.
Vice President

Christopher S. Kingsbury, RLA
Vice President

L.N. Manchi, PE
Vice President

CONCEPT MEETING MINUTES

P.I. No. 0013611, Webster County

Bridge replacement (2 locations) on US 280/SR 27 over Kinchafoonee Creek & Overflows

July 17, 2017 at 11:00 PM

One Georgia Center

ATTENDEES	ORGANIZATION	PHONE	EMAIL
Bryan Williams	GDOT Program Delivery	678-939-0019	Brywilliams@dot.ga.gov
MJ Sheehan	MAAI Design Manager	770-263-5945	Mjsheehan@maai.net
Lance Johnson	MAAI Design	770-263-5945	Ljohnson@maai.net
Sunshine Beba	GDOT/OES NEPA	404-347-0556	Sbeba@dot.ga.gov
Erik Rohde	GDOT Engineering Services	404-631-1611	Erohde@dot.ga.gov
Carol Kalafut	GDOT Bridge	404-631-1882	Ckalafut@dot.ga.gov
Tony Kenreld	Webster County Commissioner	229-828-5775	websterco@windstream.net
Harland Smith	GDOT District Planning	706-646-7566	Hasmith@dot.ga.gov
Bobby Watson	GDOT District Utilities	706-646-7661	Bwatson@dot.ga.gov
Adam Smith	GDOT D3 Preconstruction	706-621-9704	Adsmith@dot.ga.gov
Sheldon Minor	GDOT D3 Construction	706-0646-7509	sminor@dot.ga.gov
Shawn Buckley	GDOT D3 Design	706 646-7574	Sbuckley@dot.ga.gov

Following introductions, Bryan Williams identified the project then M.J. Sheehan read through the draft concept report. The following comments were made:

- Erik Rohde said alternates should note that a Northside realignment was not developed due to the large amount of streams.
- Erik Rohde Questioned why are we reducing shoulder to 6.5' when existing is 8'. *The 6.5' shoulder is standard however this area is extra wide due having guardrail. So while we will indicate the standard shoulder width in design table, it will be close to the existing shoulder width when guardrail is put back.*
- Commissioner Kenreld stated concerns about the 280 & 41 intersection in Preston. Issues with truck traffic making the turn at the intersection resulting in sidewalk damage. Also, there is a restaurant at that intersection that may be impacted. *The detour would close the road leading to the intersection. As a result, the project detour should lessen turns to and from 280 during construction.*
- Design Vehicle needs to be updated to WB-62
- Erik Rhode stated that there is a definite need for a detour meeting and that there is a long range plan to widen SR 27 that should be listed in the concept report with PI #'s 0004752 & 0004753. SR 27 is part of a bike route in this area.
- Carol Kalafut said Bridge will probably need to be longer once hydro study is complete. There is presently scouring.
- Adam Smith stated PIOH and Detour meeting will be needed.
- Bobby Watson for utility involvement delete gas add AT&T and Windstream.
- Sunshine Beba asked that Section 7 coordination and need for aquatic survey be clarified for preferred alternate. *Section 7 Coordination will be required. It is critical habitat for 3 species of mussels. As we are presuming presence of species no aquatic survey is required.*



CONCEPT MEETING AGENDA – PI#0013611 Webster County

MEETING INFORMATION

Project Description: SR 27 @ KINCHAFOONEE CREEK & OVERFLOW 1.5 MI W OF PRESTON

Date: 17 July 2017 **Time:** 11:00 a.m. – 12:00 a.m.

Location: One Georgia Center, 4th floor, Conference Room 409 (VC Available In District 3 Office)

MEETING MATERIALS

- Agenda, PSR, and Draft Concept Report (project layout)

AGENDA ITEMS

- Welcome
- Sign-in sheet
- Attendee (self) Introduction
- Project Identification
 - County & City
 - P.I. No.
 - Let Date
- Project description & design information – by designer
 - Alternatives Discussion
 - Right of Way
 - Stage construction
 - Environmental Analysis
 - Utilities on project
- Comments/questions (from attendees in the following order)
 - Local Government Officials
 - State
 - County
 - City
 - Planning
 - Programming/Financial Management
 - Engineering Services
 - Traffic Safety & Design
 - Environmental
 - District Preconstruction, Scheduling & Traffic Safety & Design
 - Right of Way
 - GDOT Utilities
 - Individual Utility Companies (in attendance)
 - Other attendees

CONCEPT TEAM MEETING PI#0013611 WEBSTER COUNTY

MEETING SIGN-IN SHEET

Project: PI#0013611 Webster County

Meeting Date: 17 July 2017

Facilitator: Bryan Williams

Place/Room: Conference Room 409 4th Floor OGC

[illegible]

CONCEPT TEAM MEETING PI#0013611 WEBSTER COUNTY

MEETING SIGN-IN SHEET

Project: PI#0013611 Webster County

Meeting Date: 17 July 2017

Facilitator: Bryan Williams

Place/Room: District 3 Office Conference Rm (D3 ALT)

Name	Office	Phone	E-Mail
Bryan Williams	Program Delivery	(678) 939-0019	brywilliams@dot.ga.gov
Harland Smith	Planning	706-646-7566	hsmith@dot.ga.gov
BOBBY WATSON	UTILITIES	706-646-7661	BWATSON@DOT.GA.GOV
Adam Smith	D3 Prec.	706-621-7704	adsmith@dot.ga.gov
Tony Kennedy		229-525-5775	websterco@windstream.net
Shawn Buckley	D3 Design	706-646-7574	sbuckley@dot.

Attachment 7

Detour Map

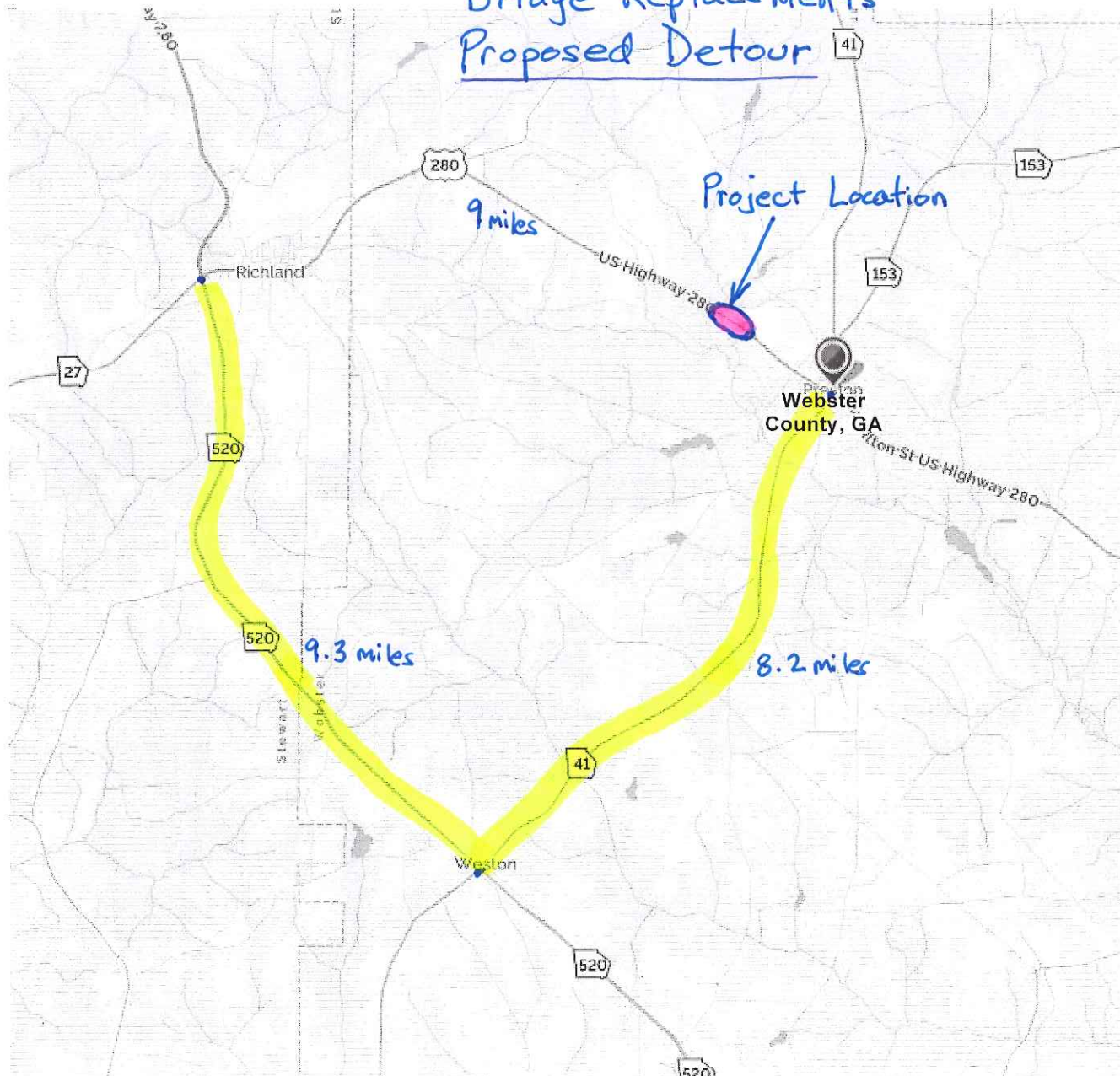
Webster County

GA

mapquest

Description

0013611 WEBSTER CO.

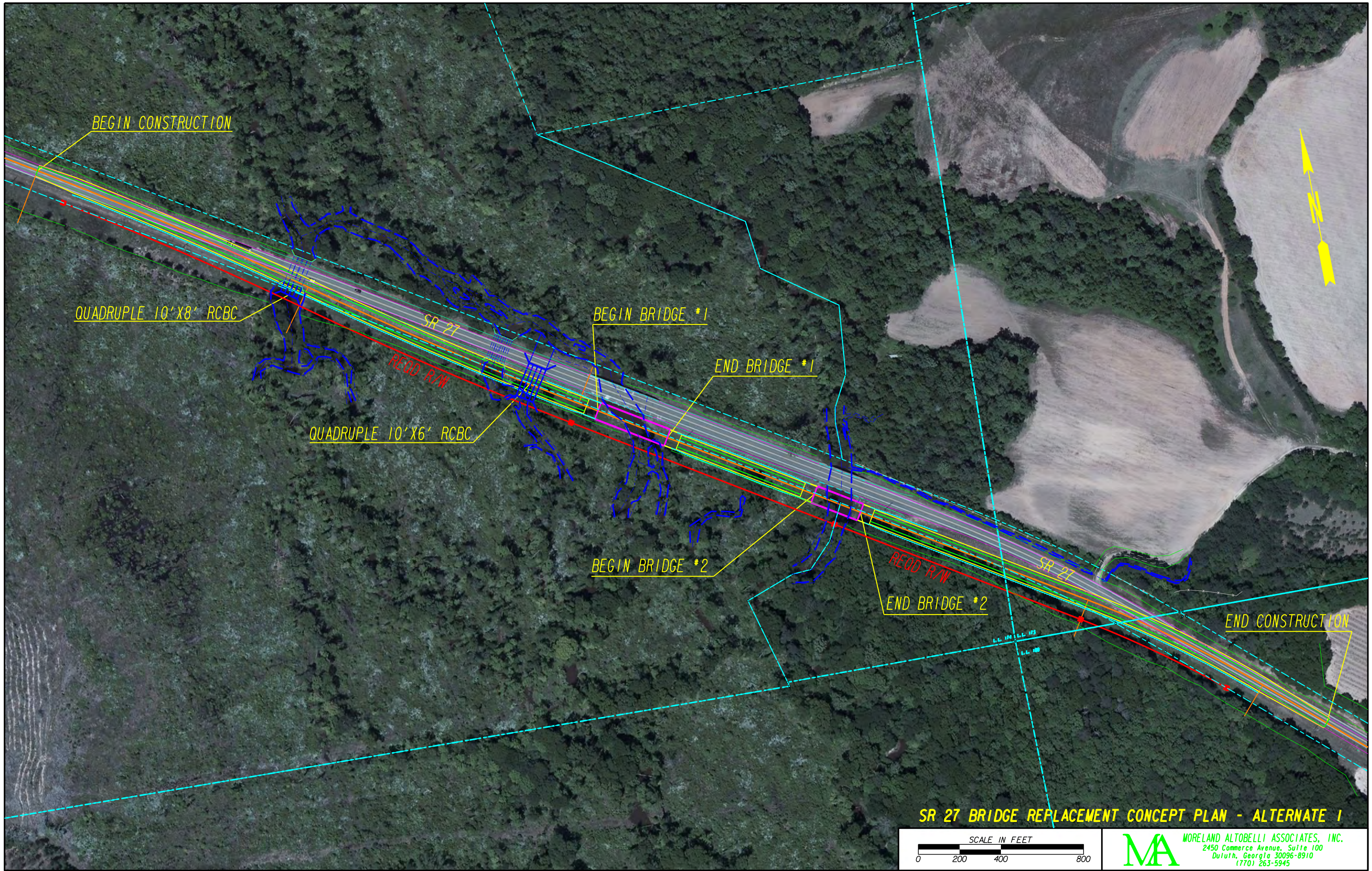
US 280/SR 27 over Kinchafoonee Creek &
OverflowsBridge Replacements
Proposed Detour

Book a hotel tonight and
save with some great deals!
(1-877-577-5766)



Car trouble mid-trip?
MapQuest Roadside
Assistance is here:
(1-888-461-3625)

Attachment 8
Alternative 1
Concept Layout & CES



SR 27 BRIDGE REPLACEMENT CONCEPT PLAN - ALTERNATE 1



MA MORELAND ALTABELLI ASSOCIATES, INC.
2450 Commerce Avenue, Suite 100
Duluth, Georgia 30096-8910
(770) 263-5945

STATE HIGHWAY AGENCY

DATE : 07/26/2017

PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0013611 ALT 1 SPEC YEAR: 13
 DESCRIPTION: SR 27 BRIDGE REPLACEMENT

ITEMS FOR JOB 0013611 ALT 1

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 0013611	1.000	184368.80	184368.80
0010	163-0232		AC	TEMPORARY GRASSING	4.000	742.68	2970.72
0015	163-0240		TN	MULCH	32.000	312.96	10014.81
0020	163-0300		EA	CONSTRUCTION EXIT	4.000	1827.12	7308.50
0025	163-0520		LF	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	120.000	19.03	2283.83
0030	163-0527		EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	20.000	359.95	7199.09
0034	163-0528		LF	CONSTR AND REM FAB CK DAM -TP C SLT FN	500.000	5.63	2819.01
0035	165-0030		LF	MAINT OF TEMP SILT FENCE, TP C	3250.000	0.75	2466.00
0040	165-0041		LF	MAINT OF CHECK DAMS - ALL TYPES	620.000	3.29	2042.05
0045	165-0101		EA	MAINT OF CONST EXIT	8.000	696.00	5568.00
0050	167-1000		EA	WATER QUALITY MONITORING AND SAMPLING	4.000	323.41	1293.64
0055	167-1500		MO	WATER QUALITY INSPECTIONS	12.000	739.36	8872.40
0060	171-0030		LF	TEMPORARY SILT FENCE, TYPE C	6500.000	3.94	25671.04
0065	210-0100		LS	GRADING COMPLETE - 0013611	1.000	450000.00	450000.00
0070	310-1101		TN	GR AGGR BASE CRS, INCL MATL	5230.000	29.81	155937.47
0075	402-1812		TN	RECYL AC LEVELING,INC BM&HL	60.000	120.92	7255.41
0080	402-3121		TN	RECYL AC 25MM SP,GP1/2,BM&HL	1450.000	81.54	118242.09
0085	402-3103		TN	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	840.000	88.58	74411.17
0090	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	970.000	86.69	84095.83
0095	413-0750		GL	TACK COAT	1060.000	2.56	2713.60
0100	432-5010		SY	MILL ASPH CONC PVMT,VARB DEPTH	840.000	8.13	6831.72
0105	433-1000		SY	REINF CONC APPROACH SLAB	535.000	177.80	95125.12
0110	441-0050		SY	CONC SLOPE DRAIN	20.000	100.22	2004.54
0115	441-0303		EA	CONC SPILLWAY, TP 3	4.000	1913.55	7654.24
0120	446-1100		LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	2600.000	5.92	15415.40
0121	500-3101		CY	CLASS A CONCRETE	440.000	1206.33	530788.73
0126	511-1000		LB	BAR REINF STEEL	60500.000	0.82	50186.57
0131	540-1102		LS	REM OF EX BR, BR NO - EX BRIDGE 1	1.000	231000.00	231000.00
0136	540-1102		LS	REM OF EX BR, BR NO - EX BRIDGE 2	1.000	154000.00	154000.00
0141	543-1100		LS	CONSTR BR-COMP-BOTTOM OF CAP BRIDGE 1	1.000	865000.00	865000.00
0146	543-1100		LS	CONSTR BR-COMP-BOTTOM OF CAP BRIDGE 2	1.000	519000.00	519000.00
0151	603-2180		SY	STN DUMPED RIP RAP, TP 3, 12 A	40.000	70.34	2813.64
0156	603-7000		SY	PLASTIC FILTER FABRIC	40.000	4.90	196.04
0157	610-1055		LF	REM GUARDRAIL	2817.000	1.74	4921.05

STATE HIGHWAY AGENCY

DATE : 07/26/2017

PAGE : 2

ITEMS FOR JOB 0013611 ALT 1

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0161	610-1075		EA	REM GUARDRAIL ANCH, ALL TYPES	4.000	133.85	535.42
0162	610-2586		SY	REM ASPH PVMT INCL BASE	6233.000	5.00	31165.00
0167	610-2587		SY	REM ASPH SHLDR PVMT INCL BASE	836.000	5.00	4180.00
0172	610-9230		LS	REM CLVT, CONCRETE, STA - .	1.000	82000.00	82000.00
0177	634-1200		EA	RIGHT OF WAY MARKERS	6.000	136.48	818.94
0182	636-1036		SF	HWY SGN,TP1MAT,REFL SH TP 11	20.000	21.38	427.60
0187	636-2070		LF	GALV STEEL POSTS, TP 7	55.000	9.08	499.53
0192	636-2080		LF	GALV STEEL POSTS, TP 8	30.000	10.75	322.79
0197	641-1100		LF	GUARDRAIL, TP T	168.000	67.42	11326.67
0202	641-1200		LF	GUARDRAIL, TP W	3284.000	18.28	60033.23
0207	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	2.000	970.15	1940.30
0212	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	2.000	2492.06	4984.14
0217	653-1501		LF	THERMO SOLID TRAF ST 5 IN, WHI	2750.000	0.68	1880.12
0222	653-1502		LF	THERMO SOLID TRAF ST, 5 IN YEL	2750.000	0.59	1640.82
0227	654-1001		EA	RAISED PVMT MARKERS TP 1	85.000	5.13	436.19
0232	657-1085		LF	PRF PL SD PVT MKG,8,B/W,TP PB	650.000	7.24	4711.58
0237	657-6085		LF	PRF PL SD PVMT MKG,8,B/Y,TPPB	650.000	6.89	4479.76
0242	700-6910		AC	PERMANENT GRASSING	4.000	1536.35	6145.44
0247	700-7000		TN	AGRICULTURAL LIME	20.000	35.77	715.48
0252	700-8000		TN	FERTILIZER MIXED GRADE	4.000	683.70	2734.84
0257	700-8100		LB	FERTILIZER NITROGEN CONTENT	400.000	3.14	1259.59
0262	716-2000		SY	EROSION CONTROL MATS, SLOPES	5600.000	1.61	9037.00

ITEM TOTAL	3871744.95
INFLATED ITEM TOTAL	3871744.95

TOTALS FOR JOB 0013611 ALT 1

ESTIMATED COST:	3871744.95
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	3871744.95

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 7/17/2017
Revised: N/A

Project: N/A
County: Webster
PI: 0013611

Description: US 280/SR 27 Bridge Replacement
Project Termini: Kinchafoonee Creek & Overflows

Existing ROW: Varies
Required ROW: Varies

Parcels: 3

Land and Improvements \$8,437.50

Proximity Damage \$0.00

Consequential Damage \$0.00

Cost to Cures \$0.00

Trade Fixtures \$0.00

Improvements \$0.00

Valuation Services \$9,000.00

Legal Services \$39,525.00


Relocation \$6,000.00

Demolition \$0.00

Administrative \$28,500.00

TOTAL ESTIMATED COSTS \$91,462.50

TOTAL ESTIMATED COSTS (ROUNDED) \$92,000.00

Preparation Credits	Hours	Signature
Robert C Wade	12	

Prepared By:

Approved By:



CG#: 2403

CG#: 261283

DATE: 7-20-17

(DATE) 7/25/17

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate